

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/630,319C

CRF Processing Date: 1/32/2003
 Edited by: [Signature]
 Verified by: [Signature] (IC staff)

- ENTERED**
- RECEIVED**
 JAN 24 2003
 TECH CENTER 16002900
- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number input by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☒ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: 124
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95



1600

RAW SEQUENCE LISTING

DATE: 01/22/2003

PATENT APPLICATION: US/09/630,319C

TIME: 18:25:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01222003\I630319C.raw

```

3 <110> APPLICANT: Krieg, Arthur M.
4      Klinman, Dennis
5      Steinberg, Alfred D.
6 <110> TITLE OF INVENTION: Methods for Treating and Preventing
7      Infectious Disease
8 <110> FILE REFERENCE: C010339/70042 (HCL/JAV)
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/630,319C
13 <141> CURRENT FILING DATE: 2000-07-31
15 <110> PRIOR APPLICATION NUMBER: US 08/960,774
16 <141> PRIOR FILING DATE: 1997-10-30
18 <110> PRIOR APPLICATION NUMBER: US 08/738,652
19 <141> PRIOR FILING DATE: 1996-10-30
21 <110> PRIOR APPLICATION NUMBER: US 08/386,063
22 <141> PRIOR FILING DATE: 1995-03-07
24 <110> PRIOR APPLICATION NUMBER: US 08/276,358
25 <141> PRIOR FILING DATE: 1994-07-15
27 <110> NUMBER OF SEQ ID NOS: 124
28 <170> SOFTWARE: FastSeq for Windows Version 3.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 20
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
36 <214> FEATURE:
37 <215> OTHER INFORMATION: Synthetic Oligonucleotide
39 <400> SEQUENCE: 1
40      atggaacatc cagggctctc
41                                     20
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 20
44 <212> TYPE: DNA
45 <213> ORGANISM: Artificial Sequence
47 <214> FEATURE:
48 <215> OTHER INFORMATION: Synthetic Oligonucleotide
50 <400> SEQUENCE: 2
51      atggaacatc ggggctctc
52                                     20
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 20
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <214> FEATURE:
59 <215> OTHER INFORMATION: Synthetic Oligonucleotide
61 <400> SEQUENCE: 3
62      tccataaagt tctgtagct
63                                     20
64 <210> SEQ ID NO: 4

```

RAW SEQUENCE LISTING

DATE: 01/22/2003

PATENT APPLICATION: US/09/630,319C

TIME: 18:25:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01222003\I630319C.raw

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65 <211> LENGTH: 15
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
68 <210> FEATURE:
70 <215> OTHER INFORMATION: Synthetic Oligonucleotide
71 <230> SEQUENCE: 4
72 <231> postgactt gact
15
73 <210> SEQ ID NO: 5
74 <211> LENGTH: 19
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
80 <210> FEATURE:
81 <215> OTHER INFORMATION: Synthetic Oligonucleotide
82 <230> SEQUENCE: 5
83 <231> gagaagctg aactgat
19
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 15
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
91 <210> FEATURE:
92 <215> OTHER INFORMATION: Synthetic Oligonucleotide
93 <230> SEQUENCE: 6
94 <231> postgactt gact
15
95 <210> SEQ ID NO: 7
96 <211> LENGTH: 20
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
101 <210> FEATURE:
102 <215> OTHER INFORMATION: Synthetic Oligonucleotide
103 <230> SEQUENCE: 7
104 <231> tcaatgagt tcaatgatg
20
105 <210> SEQ ID NO: 8
106 <211> LENGTH: 20
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
111 <210> FEATURE:
112 <215> OTHER INFORMATION: Synthetic Oligonucleotide
113 <230> SEQUENCE: 8
114 <231> tcaatgact tcaatgact
20
115 <210> SEQ ID NO: 9
116 <211> LENGTH: 20
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
121 <210> FEATURE:
122 <215> OTHER INFORMATION: Synthetic Oligonucleotide
123 <230> SEQUENCE: 9
124 <231> tcaagaagt tcaatgatg
20
125 <210> SEQ ID NO: 10
126 <211> LENGTH: 20

```

RAW SEQUENCE LISTING

DATE: 01/22/2003

PATENT APPLICATION: US/09/630,319C

TIME: 18:25:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01222003\I630319C.raw

```

132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <214> FEATURE:
136 <215> OTHER INFORMATION: Synthetic Oligonucleotide
138 <400> SEQUENCE: 10
139 gcatgaggt tctgacgtt
141 <215> SEQ ID NO: 11
142 <216> LENGTH: 11
143 <217> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
145 <214> FEATURE:
146 <215> OTHER INFORMATION: Synthetic Oligonucleotide
148 <400> SEQUENCE: 11
149 gcatgaggt tctgacgtt
151 <215> SEQ ID NO: 12
152 <216> LENGTH: 10
153 <217> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
155 <214> FEATURE:
156 <215> OTHER INFORMATION: Synthetic Oligonucleotide
158 <400> SEQUENCE: 12
159 gcatgaggt tctgacgtt
161 <215> SEQ ID NO: 13
162 <216> LENGTH: 13
163 <217> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
165 <214> FEATURE:
166 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (7)...(7)
173 <223> OTHER INFORMATION: n = m5c
W--> 175 <400> 13
W--> 176 gctagangtt agcgt
178 <215> SEQ ID NO: 14
179 <216> LENGTH: 15
180 <217> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
182 <214> FEATURE:
183 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (13)...(13)
188 <223> OTHER INFORMATION: n = m5c
W--> 190 <400> 14
W--> 191 gctagacgtt agngt
193 <215> SEQ ID NO: 15
194 <216> LENGTH: 10
195 <217> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
197 <214> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 01/22/2003

PATENT APPLICATION: US/09/630,319C

TIME: 18:25:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01222003\I630319C.raw

```

100 <222> OTHER INFORMATION: Synthetic Oligonucleotide
201 <400> SEQUENCE: 15
202 atgactctc gagcgttctc 20
203 <10> SEQ ID NO: 15
204 <211> LENGTH: 10
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
207 <214> FEATURE:
208 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (3)...(3)
214 <223> OTHER INFORMATION: n = m5c
W--> 216 <221> misc_feature
217 <222> LOCATION: (10)...(10)
218 <223> OTHER INFORMATION: n = m5c
W--> 220 <221> misc_feature
221 <222> LOCATION: (14)...(14)
222 <223> OTHER INFORMATION: n = m5c
W--> 224 <400> 16
W--> 225 atngactctn gagngttctc 20
226 <10> SEQ ID NO: 17
227 <211> LENGTH: 10
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
230 <214> FEATURE:
231 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 235 <221> NAME/KEY: misc_feature
236 <222> LOCATION: (3)...(3)
237 <223> OTHER INFORMATION: n = m5c
W--> 239 <400> 17
W--> 240 atngactctc gagcgttctc 20
241 <10> SEQ ID NO: 18
242 <211> LENGTH: 10
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
245 <214> FEATURE:
246 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (18)...(18)
252 <223> OTHER INFORMATION: n = m5c
W--> 254 <400> 18
W--> 255 atcgactctc gagcgttntc 20
256 <10> SEQ ID NO: 19
257 <211> LENGTH: 20
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
260 <214> FEATURE:
261 <215> OTHER INFORMATION: Synthetic Oligonucleotide
262 <400> SEQUENCE: 19

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RAW SEQUENCE LISTING

DATE: 01/22/2003

PATENT APPLICATION: US/09/630,319C

TIME: 18:25:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01222003\I630319C.raw

```

266 atggaaggctc gacgtttctc 20
168 <210> SEQ ID NO: 20
169 <211> LENGTH: 10
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
172 <214> FEATURE:
173 <215> OTHER INFORMATION: Synthetic Oligonucleotide
176 <400> SEQUENCE: 20
177 gagaagctc gaccttccat 20
178 <210> SEQ ID NO: 21
179 <211> LENGTH: 10
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
182 <214> FEATURE:
183 <215> OTHER INFORMATION: Synthetic Oligonucleotide
186 <400> SEQUENCE: 21
187 gagaagctc gaccttccat 20
188 <210> SEQ ID NO: 22
189 <211> LENGTH: 10
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
192 <214> FEATURE:
193 <215> OTHER INFORMATION: Synthetic Oligonucleotide
196 <400> SEQUENCE: 22
197 gagaagctc gaccttccat 20
198 <210> SEQ ID NO: 23
199 <211> LENGTH: 10
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
202 <214> FEATURE:
203 <215> OTHER INFORMATION: Synthetic Oligonucleotide
206 <400> SEQUENCE: 23
207 gagaagctc gaccttccat 20
208 <210> SEQ ID NO: 24
209 <211> LENGTH: 10
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
212 <214> FEATURE:
213 <215> OTHER INFORMATION: Synthetic Oligonucleotide
W--> 320 <221> NAME/KEY: misc_feature
214 <222> LOCATION: (6)...(6)
215 <223> OTHER INFORMATION: n = m5c
W--> 324 <400> 24
W--> 325 gagaangctg gaccttccat 20
216 <210> SEQ ID NO: 25
217 <211> LENGTH: 10
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
222 <400> SEQUENCE: 25
223 gagaangctg gaccttccat

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/630,319C

DATE: 01/22/2003
TIME: 18:25:12

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01222003\I630319C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; N Pos. 7
Seq#:14; N Pos. 13
Seq#:16; N Pos. 3,10,14
Seq#:17; N Pos. 3
Seq#:18; N Pos. 18
Seq#:24; N Pos. 6
Seq#:25; N Pos. 14
Seq#:30; N Pos. 8
Seq#:31; N Pos. 12
Seq#:43; N Pos. 8
Seq#:44; N Pos. 8
Seq#:116; N Pos. 14
Seq#:117; N Pos. 7
Seq#:122; N Pos. 8,17

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:41



1600

RAW SEQUENCE LISTING

DATE: 01/17/2003

PATENT APPLICATION: US/09/630,319C

TIME: 08:58:37

Input Set : A:\C01039.70042 (HCL-JAV).txt

Output Set: N:\CRF4\01172003\I630319C.raw

3 <110> APPLICANT: Krieg, Arthur M.
 4 Klimman, Dennis
 5 Steinberg, Alfred D.
 7 <120> TITLE OF INVENTION: Methods for Treating and Preventing
 8 Infectious Disease
 10 <130> FILE REFERENCE: C01039/70042(HCL/JAV)
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/630,319C
 13 <141> CURRENT FILING DATE: 2000-07-31
 15 <150> PRIOR APPLICATION NUMBER: US 08/960,774
 16 <151> PRIOR FILING DATE: 1997-10-30
 18 <150> PRIOR APPLICATION NUMBER: US 08/738,652
 19 <151> PRIOR FILING DATE: 1996-10-30
 21 <150> PRIOR APPLICATION NUMBER: US 08/386,063
 22 <151> PRIOR FILING DATE: 1995-02-07
 24 <150> PRIOR APPLICATION NUMBER: US 08/276,358
 25 <151> PRIOR FILING DATE: 1994-07-15
 27 <160> NUMBER OF SEQ ID NOS: 124
 29 <170> SOFTWARE: PestSEQ for Windows Version 3.0

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

1452 <210> SEQ ID NO: 124
 1453 <211> LENGTH: 20
 1454 <212> TYPE: DNA
 1455 <213> ORGANISM: Artificial Sequence
 1457 <220> FEATURE:
 1458 <223> OTHER INFORMATION: Synthetic Oligonucleotide
 1460 <400> SEQUENCE: 124
 E--> 1461 atggaggctc catcggtctc

206 - insert

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/630,319C

DATE: 01/17/2003
TIME: 08:58:40

Input Set : A:\C01039.70042 (HCL-JAV).txt
Output Set: N:\CRF4\01172003\I630319C.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:41

VERIFICATION SUMMARY

DATE: 01/17/2003

PATENT APPLICATION: US/09/630,319C

TIME: 09:58:40

Input Set : A:\C01039.70042 (HCL-JAV).txt

Output Set: N:\CRF4\01172003\I630319C.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
 L:171 H:281 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:175 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:13
 L:176 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
 L:195 H:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:196 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:14
 L:197 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
 L:212 H:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:216 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:16
 L:220 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:16
 L:224 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:16
 L:225 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
 L:226 H:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:227 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:17
 L:230 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
 L:250 H:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:254 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:18
 L:255 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
 L:260 H:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:264 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:24
 L:265 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
 L:280 H:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:289 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:25
 L:290 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
 L:294 H:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:295 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:30
 L:296 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
 L:300 H:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:315 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:31
 L:316 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
 L:330 H:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:340 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:43
 L:341 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
 L:360 H:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:364 H:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:44
 L:365 H:241 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
 L:386 M:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:390 M:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:116
 L:391 M:241 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0
 L:393 M:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:395 M:258 W: Mandatory Feature missing, <210> Tag not found for SEQ ID#:117
 L:396 M:241 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:0
 L:420 M:241 W: Numeric Fields not Ordered, <21> Sort in ascending order!
 L:424 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:122
 L:428 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:122
 L:439 M:241 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0
 L:461 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:23 SEQ:124